

Incident Name: ARA/Smith'sRegion/County: WSRO/GUGroundwater Incident File #: 10077Ranking Performed by: M. ZappieDate: 8/21/96

NORTH CAROLINA
GROUNDWATER CONTAMINATION INCIDENT MANAGEMENT
SITE PRIORITY RANKING SYSTEM
 (To be completed by Regional Office)

IMMINENT HAZARD ASSESSMENTPoints Awarded

- A. Vapor Hazard - free product in confined areas or vapor phase contamination detected at or above 20% of the lower explosive limit or at health concern levels; award 50 points total
- B. Fire - free product subject to ignition in exposed areas such as surface water impoundments, streams, excavations, etc.; award 50 points total

EXPOSURE ASSESSMENT**A Contaminated Drinking Water Supplies**

1. Private, domestic water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 10 points per well
2. Public or institutional water supply well containing substances in concentrations exceeding 15A NCAC 2L groundwater quality standards; award 20 points per well
3. Exceedances of Class WS- 1 surface water quality standards as a result of groundwater discharge; award 20 points per surface water body impacted
4. Any water supply well identified in Items II. A 1 and II. A 2 that cannot be replaced by connecting to an existing public water supply source; award additional 10 points per irreplaceable well

B. Threat to Uncontaminated Drinking Water Supplies

1. Private, domestic water supply well located within 1500 feet down gradient of the discharge, release or known extent of contaminant; award 10 points per well
2. Public or institutional water supply well located within 1500 feet down gradient of the discharge, release or known extent of contaminant; award 15 points per well
3. Raw surface water intake for public water supply located within 1/2 mile down gradient of the discharge, release or known extent of contaminant; award 5 points per water supply system
4. Any well identified in Items II. B. 1 and II. B. 2 or an intake in Item II. B. 3. are located within 250 feet of the discharge, release or known extent of contaminant; award additional 20 points total (not per well or intake)

20**C. Vapor Phase Exposure**

1. Contaminant vapors detected in inhabitable building(s) but levels are below 20% of the lower explosive limit and health concern levels; award 30 points total
2. Contaminant vapors detected in other confined areas (uninhabitable buildings, sewer lines, utility vaults, etc.) but levels are below 20% of the lower explosive limit; award 10 points total

II. SOURCE ASSESSMENT**A. Uncontrolled or Unabated Contaminant Source (including dumpsites, stockpiles, lagoons, contaminant soil, land applications, septic tanks, landfills, underground and aboveground storage tanks, etc.)**

1. Suspected or confirmed primary source remains in active use and continues to receive raw product, wastewater or solid waste; award 30 points per source

2. Active use of suspected or confirmed primary source has been discontinued or source was caused by a one-time release of product or waste, however, primary or secondary source continues to release product or contaminants into the environment; award 10 points per source

IV. ENVIRONMENTAL VULNERABILITY ASSESSMENT

- A. Vertical Contaminant Migration - Literature or well logs indicate that no confining layer is present above bedrock or within twenty feet of land surface; award 10 points total 10
- B. Horizontal Contaminant Migration - Data or observations indicate that no discharge points or aquifer discontinuities exist between the discharge, release or known extent of contamination and the nearest down gradient drinking water supply; award 10 points total
- C. Existing Groundwater Quality - The worst case monitor or supply well contains contaminant levels:
1. At less than 10 times the 2L groundwater standards; award 5 points
 2. Between 10 and 100 times the 2L groundwater standards; award 20 points
 3. Greater than 100 times the 2L groundwater standards; award 40 points 40

V. REGIONAL OFFICE RESPONSE (LETTER RANK)
(Put an X on the line next to all conditions that apply)

CATEGORY A (one or more of the following conditions are present)

1. One or more water supply well(s) are contaminated and the persons using the wells are not served by an existing public water supply.
2. Petroleum vapors present in confined areas at levels that pose a human health concern or an explosion hazard.
3. A treated surface water supply is in violation of the drinking water standards set out in rules adopted by the Commission for Health Services under G.S. 130A-315..

CATEGORY B (one or more of the following conditions are present)

1. One or more water supply wells are contaminated but the persons using the wells are served by an existing public water supply.
- X 2. One or more water supply well(s) are in use within 1500 feet of discharge, release or known extent of contamination, the wells are not contaminated, and the persons using the wells are not served by an existing public water supply.
3. Petroleum vapors present in confined areas but do not currently pose a threat to human health or an explosion hazard.

CATEGORY C (both of the following conditions are present)

1. One or more water supply well(s) are present at a distance greater than 1500 feet of the discharge, release or known extent of contamination, and the persons using the wells are not served by an existing public water supply.
2. None of the identified water supply wells are contaminated.

CATEGORY D (both of the following conditions are present)

1. One or more water supply well(s) are present within 1500 feet of the discharge, release or known extent of contamination, and the persons using the wells are served by an existing public water supply.
2. None of the identified water supply wells are contaminated.

CATEGORY E (both of the following conditions are present)

1. Water supply well(s) are not present within 1500 feet of the discharge, release or known extent of contamination, and no known water supply well(s) are contaminated.
2. All persons within 1500 feet of the discharge, release or known extent of contamination are served by an existing public water supply.

TOTAL POINTS AWARDED

70/B

#/letter

GW at 8'-10'

☒ USGS MAP

☒ BASE MAP

☒ ORIENTATION OF UST

☒ LENGTH OF UST 16.5'

☒ DIAMETER OF UST 10'

☒ VOLUME OF UST 10K

☒ MATERIAL STORED diesel

☒ SAMPLE LOCATIONS

☒ DEPTH OF SAMPLE

☒ SIDE OR FLOOR SAMPLE

side sample 1' from bottom
water sample

3' DEPTH OF TANK BURIAL
backhoe-soil

bailer-H₂O HOW SAMPLE WAS COLLECTED

ice SAMPLES PRESERVED AND TRANSPORTED

by lab TOOLS DECONTAMINATED

☒ TIME/DATE SAMPLE COLLECTED

☒ TIME/DATE LAB RECEIVED

☒ LAB RESULTS 4250 for oil

GW impacted in gas & diesel pit above
2L.

☒ ANALYSIS METHOD 9071-oil

3550 & 5030 soil

601, 602 ext., 625
for H₂O

☒ C.O.C.

☒ REFERENCE TO SAMPLING POINT ON MAP

☒ CORRECT # OF SAMPLES

☒ WITHIN 14 DAYS HOLDING TIME FOR SAMPLES

Safeway TANK DESTINATION

stockpiled on site DISPOSITION OF SOIL 200 tons - 2 composite samples collected &
analyzed by 5030/3550

1-26-93 REMOVAL DATE

☒ COMPLETE GW/UST-2 FORM